

OIB - Other: NOAA P-3 05/16/16 Science Report

Aircraft:

Other: NOAA P-3

Date:

Monday, May 16, 2016

Mission:

OIB

Mission Location:

Kangerlussuaq, Greenland

Mission Summary:

Mission: Thomas-Jakobshavn 01 (priority: baseline)

This is a repeat of 2009-2015 IceBridge missions. Its purpose is to re-survey the highest-priority lines of the historical ATM 10-km Jakobshavn grid and the main flowline of Jakobshavn. It also extends that grid with a broader array of ICESat ground tracks over the larger Jakobshavn basin. Renamed in 2015 in honor of Dr. Robert H. Thomas.

After being clouded all of last week, the Jakobshavn basin cleared during the day yesterday with strong high pressure taking control of the central part of Greenland's ice sheet, and was completely clear on the satellite images when we woke up this morning. The only uncertainty in the weather for the area was the strength of the predicted offshore winds. As it turned out, the weather model showing the lighter winds was the correct one, and we enjoyed clear skies and calm air all day long.

All instruments performed normally today, and neither ATM nor DMS experienced unusual fouling of their respective windows from hydraulic fluid.

Overall, we estimate successful data collection across 100% of the flight.

We conducted a ramp pass over Kangerlussuaq at 1500' AGL.

Data volumes:

ATM: 32 Gb

FLIR: 4,0 Gb

DMS: 109 Gb

Ku-Band Radar: 169 Gb

MCoRDS: 1.3 Tb

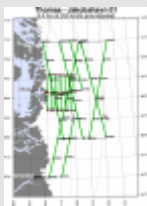
Snow Radar: 169 Gb

BESST: xx Gb

total data collection time: 7.6 hrs

Images:

Map of today's flight



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Swiss Camp



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Lakes and Jakobshavn Fjord



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Calving front of Jakobshavn Glacier



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Submitted by:

John Sonntag on 05/16/16

Related Flight Report:

Other: NOAA P-3 05/16/16

Flight Number:

Land Ice Thomas-Jakobshavn 01

Payload Configuration:

OIB Spring 2016

Nav Data Collected:

No

Total Flight Time:

7.9 hours

Submitted by:

John Woods on 05/16/16

Flight Segments:

From:	BGSF	To:	BGSF
Start:	05/16/16 11:11 Z	Finish:	05/16/16 19:06 Z
Flight Time:	7.9 hours		
Log Number:	16M030	PI:	Nathan Kurtz
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		

Flight Hour Summary:

	16M030
Flight Hours Approved in SOFRS	200
Total Used	148.7
Total Remaining	51.3

16M030 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
03/22/16	ICF1	Check	2	2	198
03/23/16	ICF2	Check	3.4	5.4	194.6
04/12/16	ICF3	Check	1.3	6.7	193.3
04/15/16	Repo 1	Ferry	0.5	7.2	192.8

04/16/16	Repo 2	Ferry	2.9	10.1	189.9
04/18/16	Repo 3	Ferry	7.1	17.2	182.8
04/19/16	Sea Ice Eureka	Science	7.3	24.5	175.5
04/20/16	Sea Ice Laxon Line	Science	8.7	33.2	166.8
04/21/16 - 04/22/16	Sea Ice SIZRS Zigzag	Science	8.3	41.5	158.5
04/30/16	Sea Ice South Basin Transect	Science	8.8	50.3	149.7
05/03/16	Sea Ice North Pole Transect	Science	7.6	57.9	142.1
05/04/16	Sea Ice South Canada Basin	Science	7.9	65.8	134.2
05/09/16	Land Ice Zachariae-79N	Science	7.6	73.4	126.6
05/10/16	Land Ice Northwest Coastal A	Science	6	79.4	120.6
05/11/16	Land Ice Umanaq B	Science	7.1	86.5	113.5
05/12/16	Land Ice Southeast Coastal	Science	7.3	93.8	106.2
05/13/16	Land Ice Helheim- Kangerdlugssuaq	Science	7.8	101.6	98.4
05/14/16	Land Ice SW Coastal A	Science	7.8	109.4	90.6
05/16/16	Land Ice Thomas- Jakobshavn 01	Science	7.9	117.3	82.7
05/17/16	Land Ice Helheim- Kangerdlugssuaq Gap B	Science	8.1	125.4	74.6
05/18/16	Land Ice IceSat-2 Central	Science	7.7	133.1	66.9
05/19/16	Land Ice East Glaciers 01	Science	7.1	140.2	59.8
05/21/16	Ferry BGSF_KMCF	Ferry	8.5	148.7	51.3

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

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